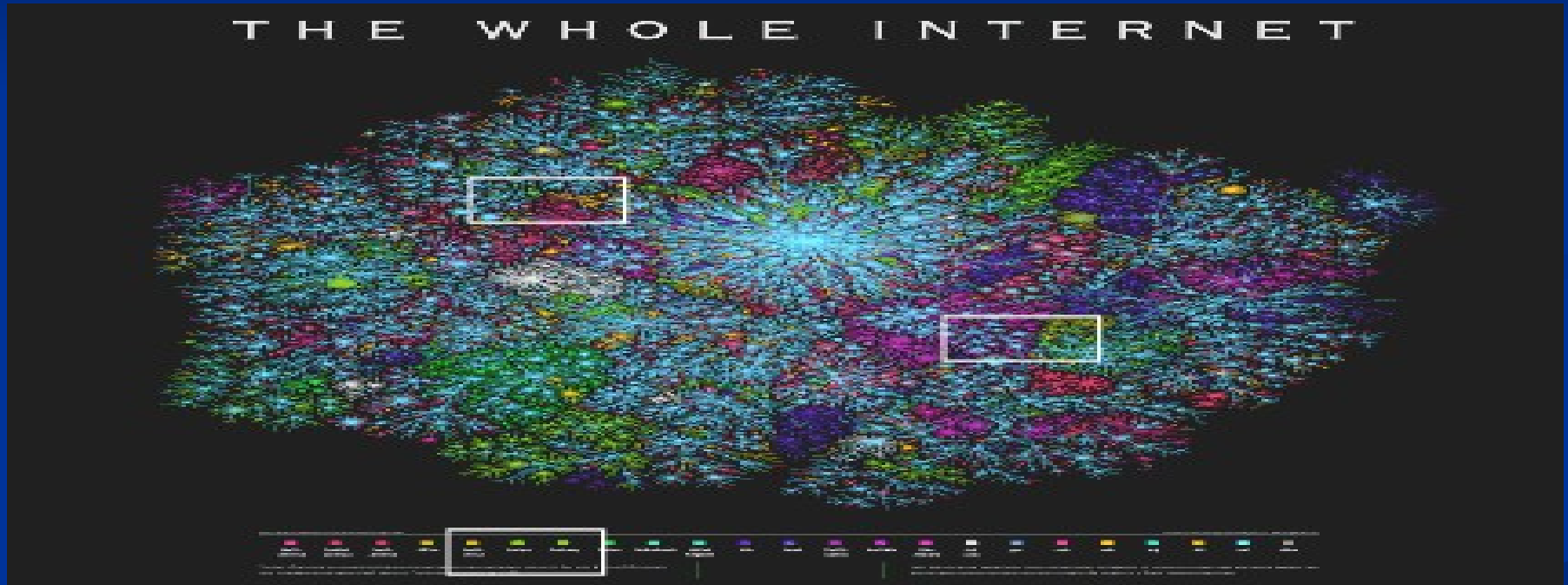


# Wanted: a National Information Strategy for the Interconnected Age



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"My Opinions...not the USG/DOD/NDU"



# Thesis #1

## “the battlespace”

- Information
  - Weapon - Tool - Process – Target ?
    - more than aid to “Blast - Heat - Fragmentation”
      - LTG Mike Hayden, DirNSA
- Synergy
  - human factors + information technology
- Information is now...
  - **element of national power**
  - **operational environment/“battlespace”**



# Thesis #2

## “the threat”

- Modern societies are increasingly vulnerable
  - Technologically/Economically
    - Infrastructures
      - telecommunications, energy, transportation, etc
  - Socially/Politically
    - Perception management, politics
      - “CNN Effect”, “strategic influence”, Al Jazeera, etc
- Employment/Protection requires BOTH technological capability AND political will



# Thesis #3

## “the partnership”

- The Department of Defense (or MOD), Federal Government, and the private sector share
  - Roles
  - Responsibilities
  - Capabilities

In protecting, leveraging, exploiting:  
“national cyberspace” & information  
power



# 4 Fundamental Changes New Geostrategic Context

- **Cyberspace:** new operational realm/battlespace
  - Dominant in business, politics, warfare
- **Convergence**
  - Digital: 1110101110001010 = lingua franca
  - Information mediums (radio, TV, phone, etc)
- **Global Omnilinking**
  - Electronic digital connectivity of people, organizations, governments...globally & instantly
- **Critical Infrastructure Protection**
  - Opportunity....and vulnerability
  - Critical to advanced societies, but public/private links poorly understood
    - Roles and missions; what does “interagency” mean?



# What it Adds Up To

- Global Economy
  - Dependent on interlinked networks
  - Information as critical as energy and capital
- Global Audience
  - Real-time 24-hour cycle
  - Waning controllability of information
- Global Society
  - Contact anyone, anywhere, anytime
- **Strategic Impact: Diplomatic, Economic, Military**



# Information & National Power

- The **information component**
  - “Use of information **content and technology** as **strategic instruments** to shape fundamental political, economic, military and cultural forces on a long-term basis to affect the **global behavior** of governments, supra-governmental organizations, and societies to **support national security**”
    - Drs Dan Kuehl/Bob Neilson, Georgetown’s NSSQ 1999
    - President Ronald Reagan:
    - NSDD 130 (1984)
    - National Security Strategy (1987)



# Information Environment

- **Physical: “Ether”/Cyberspace/“eSpace”**
  - Realm of electronic connectivity
  - Physical space
    - Future: increasingly dominant
      - business/economics, politics, warfare
- **Contextual: “influence/perception space”**
  - “Cognitive Space”
  - analogy: “political/economic environments”
    - Example: Serbian TV vs NATO cohesion 1999
  - If you lose the battle here, winning the other may not matter: see Mogadishu, 1993





# IO Roadmap

## SecDef 30 October 2003

- IO as a core military competency, on par with air-ground-maritime-special ops
  - We must dominate the information spectrum
- Core capabilities
  - EW, CNO, Psyop, Military Deception, Opsec
  - Why these five?
    - Immediate operational impact
    - Interdependent and require integration
    - Organize-Train-Equip implications
- Supporting/Related functions
  - Physical attack and security, IA, Counter-Intel, Public Affairs, Civil-Military Ops



# Paradigm K<sub>uehl</sub>

- **National Information Power**
  - **Broadest range of military, governmental and civilian capabilities; exploit the global information environment & dominate strategic context**
- **Information Operations**
  - **Wide range of military and governmental operations to protect and/or exploit the**
- **Information Warfare**
  - **Military offensive & defensive actions to control/exploit the environment**
- **C2W (information tech in war)**
  - - **blast, heat, fragmentation**

Dan Kuehl, "Joint Information Warfare"

NDU Press Strategic Forum #105  
[www.ndu.edu/inss](http://www.ndu.edu/inss)



# National Security Strategy

## Last Clinton NSS, December 2000

- 3 Key pillars
  - Critical Infrastructure Protection (CIP)
    - Vital national interest, use force to defend
    - “Partnership” of public-private sectors
  - Information Warfare/Operations (IW/IO)
    - Lead to Network Centric Ops -- Transformation?
  - Public Diplomacy/International Public Information (PD/IPI).....”Softpower”, “Information Engagement”
    - “increasingly vital....transmit [our] message to people around the world” to “counter misinformation/incitement...mitigate conflict”



# National Security Strategy

## First Bush NSS, October 2002

- “Infrastructure”, “Information Ops”
  - 1 reference to each
- “Public Diplomacy/Information”
  - 3 references
- No sense of information as power or environment: no sense of its impact
- No coordination of Administration efforts
  - Diplomatically, militarily, economically
- Kuehl/Neilson “No Strategy for an Info Age” USNIP Sept 2003



# Information Power... Who's in Charge?



Diplomatic and Military...  
Centralized and Hierarchical



Economic and Information...  
Diffused and Shared







# What's Lacking

- Who and Where do we go for the COGs of Information Power?
  - National Information Council?
  - Who would be on it?
- What do need from them? What are we lacking?
  - National Information Strategy
  - Why don't we have one?
  - **We need a strategic and conceptual foundation for how we can employ Information Power to support national security**

## The "Long Telegram"



- 861.00/2 - 2246: Telegram
- *The Charge in the Soviet Union*
- *Kennan) to the Secretary of State*
- SECRET
- Moscow, February 22, 1946--9 p.m. [Received February 22--3: 52 p.m.]
- 511. Answer to Dept's 284, Feb 3 [13] involves questions so intricate, so delicate, so strange to our form of thought, and so important to analysis of our international environment that I cannot compress answers into single brief message without yielding to what I feel would be dangerous degree of oversimplification. I hope, therefore, Dept will bear with me if I submit in answer to this question five parts, subjects of which will be roughly as follows:
  - (1) Basic features of post-war Soviet outlook.
  - (2) Background of this outlook
  - (3) Its projection in practical policy on official level.
  - (4) Its projection on unofficial level.
  - (5) Practical deductions from standpoint of US policy.



# National Information Strategy (Suggested)

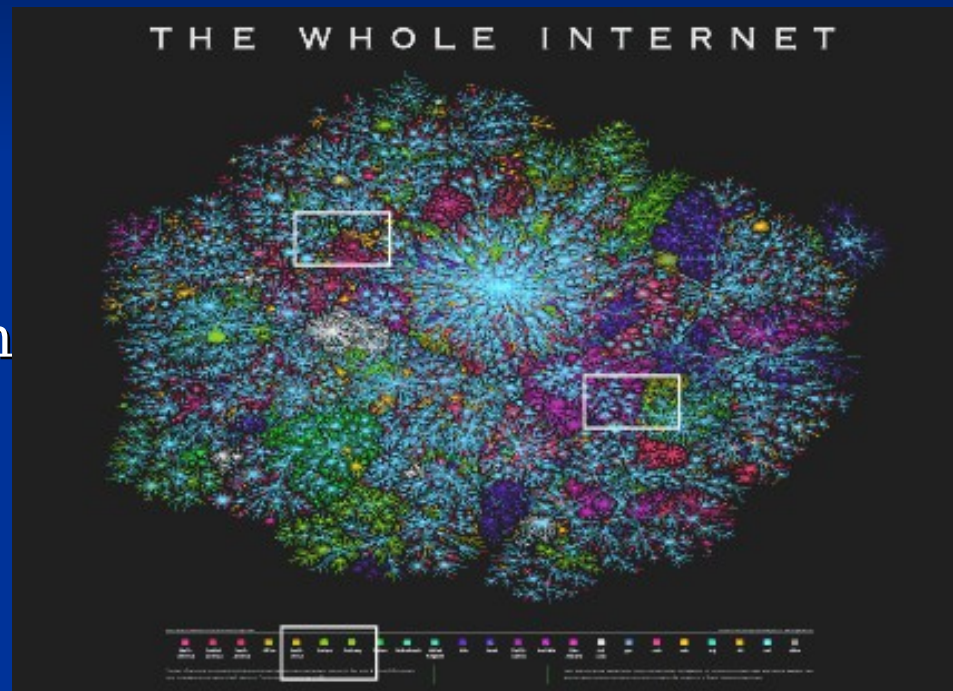
## Build on '99/'00 National Security Strategies

- Partnerships
    - Need to build on PDD-63/HSPD-7 efforts...globally
  - Information Superiority
    - New American Way of War; JV2010/2020
      - Cyberspace and Information Operations...Net Centric Ops
  - The Economy
    - IT's decisive and dominant role...globally
  - Influence
    - Internet and TV in “global cognitive battlespace”
    - Essential operational medium for “War of Ideas”
- 
- Dr Dan Kuehl, “Information Power & the National Security Strategy”, **Cyberwar 3.0**



# What's Needed

- Information-age corollary to the “Long Telegram”
- New strategy is not “Containment”...it's **CONNECTIVITY!**
- Free flows of information can enhance
  - Democracy
  - Human rights
  - Economic development
  - Peace







# Conclusion

The information environment and element of power: critical to current/future military & national security strategy

- Learn how to exploit and defend the information environment...or be defeated via it
- National security in the Interconnected Age requires new alliances and partnerships
  - In Defense, in the Government, in the World
- At least the future won't be dull and boring!



**Q & A**